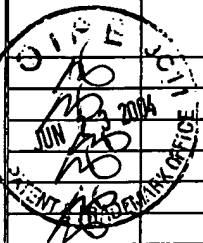


Substitute for Form 1449/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/072,511
				Filing Date	February 5, 2002
				First Named Inventor:	Seok-Hyun Yun
				Art Unit	2882
				Examiner Name	Suchecki, Krystyna
Sheet	1	of	2	Attorney Docket Number	5489P001

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (If known)				
		US-	4,068,191	1/10/1978	Zemon et al.	
		US-	4,781,425	11/1/1988	Risk et al.	
		US-	4,828,350	5/9/1989	Kim et al.	
		US-	4,832,437	5/23/1989	Kim et al.	
		US-	4,915,468	4/10/1990	Kim et al.	
		US-	4,971,417	11/20/1990	Krinsky et al.	
		US-	5,007,705	4/16/1991	Morey et al.	
		US-	5,708,736	1/13/1998	Steinblatt	
		US-	6,021,237	2/1/2000	Kim et al.	
		US-	6,151,157	11/21/2000	Ball et al.	
		US-	6,151,427	11/21/2000	Satorius	
		US-	6,233,379 B1	05/15/2001	Kim et al.	
		US-	6,253,002 B1	6/26/2001	Kim et al.	
		US-	6,343,165 B1	1/29/2002	Kim et al.	
	US-	6,510,261 B2	1/21/2003	Sorin et al.		

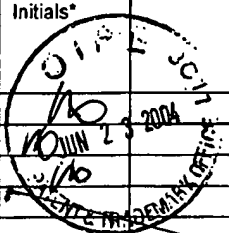
FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner Signature		Date Considered	08/02/04
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		US-	6,539,148 B1	3/25/2003	Kim et al.	
		US-	6,631,224 B1	10/7/2003	Sorin et al.	
		US-	6,640,027 B2	10/28/2003	Kim et al.	
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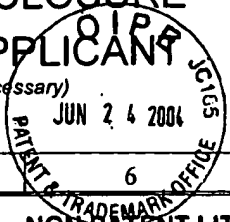
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NO		J.N. Blake, B.Y. Kim, H.E. Engan, and H.J. Shaw, "Analysis of intermodal coupling in a two-mode fiber with periodic microbends," Optics Letters, Vol. 12, No. 4, pp. 281-283 (April 1987).			
NO		B.Y. Kim, J. N. Blake, H.E. Engan, and H.J. Shaw, "Acousto-optic frequency-shifting in two-mode optical fibers," OFS '86, Tokyo, Japan (October 8-10, 1986).			
NO		H.E. Engan, B.Y. Kim, J.N. Blake, and H.J. Shaw, "Propagation and optical interaction of guided acoustic waves in two-mode optical fibers," Journal of Lightwave Technology, Vol. 6, No. 3, pp. 428-436 (March 1988).			
NO		J. O. Askautrud and H.E. Engan, "Fiber-optic frequency shifter with no mode change using cascaded acousto-optic interaction regions," Optics Letters, Vol. 15, No. 11, pp. 649-651 (June 1, 1990).			
NO		H.E. Engan, T. Myrvtveit, and J.O. Askautrud, "All-fiber acousto-optic frequency shifter excited by focused surface acoustic waves," Optics Letters, Vol. 16, pp. 24-26 (January 1, 1991).			
NO		H.E. Engan, D. Ostling, P.O. Kval, and J.O. Askautrud, "Wideband operation of horns for excitation of acoustic modes in optical fibers," Proc. OFS (10), Glasgow, 11th - 13th Oct. 1994, pp. 568-571 (SPIE Proc. 2360).			
NO		D. Ostling and H.E. Engan, "Narrow-band acousto-optic tunable filtering in a two-mode fiber," Optics Letters, Vol. 20, No. 11, pp. 1247-1249 (June 1, 1995).			
NO		H.E.Engan, "Analysis of polarization mode coupling by acoustic torsional waves in optical fibers," J. Opt. Soc. Am. A., Vol. 13, No. 1, pp. 112-118 (January 1996).			
NO		D Ostling and H.E. Engan, "Spectral flattening by an all-fiber acousto-optic tunable filter," 1995 IEEE Ultrasonics Symposium, pp. 837-840.			
NO		D. Ostling and H.E. Engan, "Broadband spatial mode conversion by chirped fiber bending," Optics Letters, Vol. 21, No. 3, pp. 192-194 (February 1, 1996).			
NO		D. Ostling and H.E. Engan, "Polarization-selective mode coupling in two-mode Hi-Bi fibers," Journal of Lightwave Technology, Vol. 15, No. 2, pp. 312-320 (February 1997).			

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**Complete if Known**

Application Number	10/072,511
Filing Date	February 5, 2002
First Named Inventor:	Seok-Hyun Yun
Art Unit	2882
Examiner Name	Suchecki, Krystyna
Attorney Docket Number	5489P001

Sheet

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of

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**NON PATENT LITERATURE DOCUMENTS**

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NO		H.E. Engan, "Acoustic torsional waves used for coupling between optical polarization modes in optical fibers," 1996 IEEE Ultrasonics Symposium, pp. 799-802.	
NO		D. Ostling and H.E. Engan, "Acousto-optic tunable filters in two-mode fibers," Optical Fiber Technology, Vol. 3, pp. 177-183 (1997).	
NO		B. Langli, P.G. Sinha, and K. Blotekjaer, "Acousto-Optic Mode Coupling of Partially Coherent Light in Two-Mode Fibers," Optical Review, Vol. 4, No. 1A, pp. 121-129, Jan./Feb. 1997.	
NO		T.A. Birks, P.S.J. Russell, and C.N. Pannell, "Low power acousto-optic device based on a tapered single-mode fiber," IEEE Photonics Technology Lett., Vol. 6, No. 6, pp. 725-727 (June 1994).	
NO		M. Berwick and D.A. Jackson, "Coaxial optical-fiber frequency shifter," Optics Letters, Vol. 17, No. 4, pp. 270-272 (February 15, 1992).	
NO		W.P. Risk and G.S. Kino, "Acousto-optic fiber-optic frequency shifter using periodic contact with a copropagating surface acoustic wave," Optics Letters, Vol. 11, No. 5, pp. 336-338 (May 1986).	
NO		W.P. Risk and G.S. Kino, "Acousto-optic polarization coupler and intensity modulator for birefringent fiber," Optics Letters, Vol. 11, No. 1, pp. 48-50 (January 1986).	
NO		W.P. Risk, G.S. Kino, and B.T. Khuri-Yakub, "Tunable optical filter in fiber-optic form," Optics Letters, Vol. 11, No. 9, pp. 578-580 (September 1986).	
NO		S.F. Su, R. Olshansky, D.A. Smith, and J.E. Baran, "Flattening of erbium-doped fibre amplifier gain spectrum using an acousto-optic tunable filter," Electron Letters, Vol. 29, No. 5, pp. 477-478 (March 4, 1993).	
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NO		J. Ji, D. Uttam, and B. Culshaw, "Acousto-optic frequency shifting in ordinary single-mode fibre," Electronics Letters, Vol. 22, No. 21, pp. 1141-1142 (October 9, 1986).	

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WO		C.N. Pannell, R.P. Tatam, J.D.C. Jones, and D.A. Jackson, "Optical frequency shifter using linearly birefringent monomode fibre," Electronics Letters, Vol. 23, No. 16, pp. 847-848 (July 30, 1987).			
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WO		H.E. Engan, et al., "Propagation and Optical Interaction of Guided Acoustic Waves in Two-Mode Optical Fibre," IEEE Journal of Lightwave Technology, Vol. 6, No. 3, pp. 428-436 (March 1988).			
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WO		H.S. Kim, et al., "All-fiber acousto-optic tunable notch filter with electronically controllable spectral profile," Optics Letters, Vol. 22, No. 19, pp. 1476-1478 (October 1, 1997).			
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WO		H.S. Kim, et al., "Actively gain-flattened Erbium-Doped Fiber Amplifier Over 35nm by Using All-Fiber Acoustooptic Tunable Filters, IEEE Photonics Technology Letters, Vol. 10, No. 6, pp. 790-792 (June 1998)			
WO		S.H. Yun, et al., "Dynamic Erbium-Doped Fiber Amplifier Based on Active Gain Flattening with Fiber Acoustooptic Tunable Filters," IEEE Photonics Technology Letters, Vol. 11, No. 10, pp. 1229-1231 (October 1999).			
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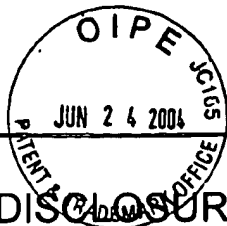
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NO		S.H. Yun, et al., "Electronically Tunable Fiber Laser Using All-Fiber Acousto-Optic Tunable Filter," IOOC '95, (10th International Conference on Integrated Optics and Optical Fibre Communication), Hong Kong, pp. 22-23 (June 26-30, 1995).	
NO		M.Y. Jeon, et al., "Harmonically Mode-Locked Fiber Using an All-Fiber Acousto-Optic Tunable Filter," OFC '97, Dallas, Texas, pp. 166-167 (February 16-22, 1997).	
NO		S.H. Yun, et al., "Fiber grating sensor array demodulation using wavelength-swept fiber laser," OFS-12, Williamsburg, Virginia, pp. 658-661 (October 28-31, 1997).	
NO		H.S. Kim, et al., "Dynamic gain equalization of erbium-doped filter amplifier with all-fiber -acousto-optic tunable filters," OFC '98, WG4, San Jose, California, USA, pp. 136-138 (February 22-27, 1998).	
NO		Y.W. Koh, et al., "Broadband Polarization-Insensitive All-Fiber Acousto-Optic Modulator," OFC '98, WM50, San Jose, California, USA, Vol. 2, pp. 239-240 (February 22-27, 1998).	
NO		K. Oh, et al., "Characterization of elliptic core fiber acousto-optic tunable filters operated in the single mode and the multi-mode range," OFC '98, WM59, San Jose, California, USA, Vol. 2, pp. 250-251 (1998).	
NO		B.Y. Kim, et al., "Fiber Based Acousto-Optic Filters," OFC/IOOC '99, San Diego, California, USA, pp. 199-201, Invited Paper (February 21-26, 1999).	
NO		B.Y. Kim, "Acousto-Optic Components for WDM Application," IEEE/LEOS Summer Topical Meetings, San Diego, California, USA, pp. 47-48, Invited Papers (July 26-28, 1999).	
NO		B.Y. Kim, "Acousto-Optic filters for fiber systems," ICO-128, San Francisco, California, USA, pp. 92-93, Invited Paper (August 2-6, 1999).	
NO		O. Lisboa, et al., "New configuration for an optical fiber acousto-optic frequency shifter," Proc. Soc. Photo-Opt. Instrum. Eng., Vol. 1267, pp. 17-23 (March 13-14, 1990).	

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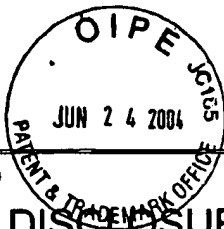
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WO		D.O. Culverhouse, et al., "Four port fused taper acousto-optic device using standard single mode telecommunication fiber," Electronic Letters, Vol. 31, No. 15, pp. 1279-1280 (July 20, 1995).	
WO		D.O. Culverhouse, et al., "Low-loss all-fiber acousto-optic tunable filter," Optics Letters, Vol. 22, No. 2, pp. 96-98 (January 15, 1997).	
WO		T.E. Dimmick, et al., "Compact all-fiber acoustooptic tunable filters with small bandwidth-length product," IEEE Photonics Technology Letters, Vol. 12, No. 9, pp. 1210-1212 (September 2000).	
WO		G. Kakarantzas, et al., "High strain-induced wavelength tunability in tapered fibre acousto-optic filters," Electronics Letters, Vol. 36, No. 14, pp. 1187-1188 (July 6, 2000).	
WO		T.E. Dimmick, et al., "Narrow-band acousto-optic tunable filter fabricated from highly uniform tapered optical fiber," Optical Fiber Communication Conference 2000, Vol. 37, pp. 25-27 (March 7-10, 2000).	
WO		T.A. Birks, et al., "Control of bandwidth in fiber acousto-optic tunable filters and other single-mode null coupler devices," CLEO, 1997, Vol. 11, pp. 444-445 (1997).	
WO		T.A. Birks, et al., "The acousto-optic effect in single-mode fiber tapers and couplers," Journal of Lightwave Technology, Vol. 14, No. 11, pp. 2519-2529 (November 1996).	
WO		D.O. Culverhouse, et al., "All-fibre Acousto-optic Tunable Filter Based on a Null Coupler," Optical Communication 1996, ECOC '96, Vol. 3, pp. 317-320 (September 15-19, 1996).	
WO		W.F. Liu, et al., "100% efficient narrow-band acoustooptic tunable reflector using fiber Bragg grating," Journal of Lightwave Technology, Vol. 16, No. 11, pp. 2006-2009 (November 1998).	
WO		F. Tian, et al., "Interchannel Interference in Multiwavelength Operation of Integrated Acousto-Optical Filters and Switches," Journal of Lightwave Technology, Vol. 13, No. 6, pp. 1146-1154 (1995).	
WO		T.E. Dimmick, D.A. Satorius, and G.L. Burdge, "All-Fiber Acousto-Optic Tunable Bandpass Filter," Optical Society of America 2000, 3 pages total (2000).	

Examiner Signature		Date Considered	8/8/02/04
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				Application Number	10/072,511	
				Filing Date	February 5, 2002	
				First Named Inventor:	Seok-Hyun Yun	
				Art Unit	2882	
				Examiner Name	Suchecki, Krystyna	
Sheet	6	of	6	Attorney Docket Number		5489P001
<b>NON PATENT LITERATURE DOCUMENTS</b>						
Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published				T <sup>2</sup>
WO		M.Y. Jeon, et al., "An Electronically Wavelength-Tunable Mode-Locked Fiber Laser Using an All-Fiber Acousto-Optic Tunable Filter," Proceedings of the 10th International Conference, Del Coronado, CA, pp. 20-21 (May 28 - June 1, 1996)				
WO		H.S. Kim, S.H. Yun, I.K. Hwang, and B.Y. Kim, "Single-mode-fiber acousto-optic tunable notch filter with variable spectral profile," Conference on Optical Fiber Communications, 1997 OSA Technical Digital Series, Vol. 6, pp. 395-398 (February 16-21, 1997)				

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